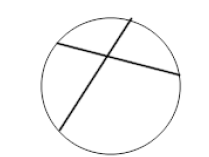
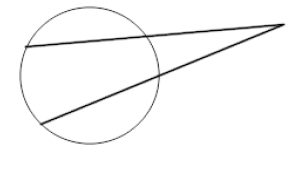
**Aim:** How do we solve circle segment and angle problems?

**Do Now:**

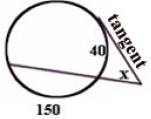
If you want to find a segment of this circle, write the formula?



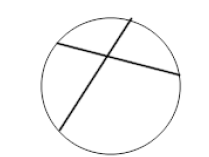
If you want to find a segment of this circle, write the formula?



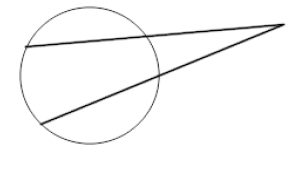
IF you want to find a segment of this circle, write the formula:



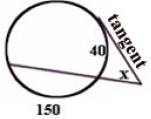
If you want to find the angle of this circle, write the formula



If you want to find the angle of this circle, write the formula



IF you want to find the angle of this circle write the formula:



Motivation: Get into pairs and work on the problems together. Explain the problems to each other.

Have students go to the board and write answers down for credit.

**Pivotal Questions:**

1) How do we find a segment if there are two chords within the circle?

2) How do we find a segment if there is a secant-secant relationship?

3) How do we find a segment if there is a secant-tangent relationship?

4) How do we find an angle if there are two chords within the circle?

5) How do we find an angle if there is a secant-secant relationship?

6) How do we find an angle if there is a secant-tangent relationship?

Circle Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 1) If AE = 7 and ED = 8, and CE = 10, what is EB? | 2) In circle D, AB = 24, what is the value of BC? |
| 3) Find the perimeter of the following figure below: | 4)    Which is true?  (1) arc CE = arc DF (2) arc AC = arc CE  (3) arc AC = arc DF (4) arc EF = arc CD |
|  | 6) In circle O, secant http://www.regentsprep.org/Regents/math/geometry/PracticeTests/MCTest99.gifintersects the circle at *C* and secant http://www.regentsprep.org/Regents/math/geometry/PracticeTests/MCTest100.gifintersects the circle at *A*.  If *SC* = 6, *CD* = 8 and *SA* = 4, find *AB*.  http://www.regentsprep.org/Regents/math/geometry/PracticeTests/T2pic9.jpg |
| I  7) Find AD if AC = 24, AE = 14, and AB = 16. |  |
|  | 10) Solve for x:  Graphic |
| 11) Find *BC.* |  |
| |  |  | | --- | --- | | Top of Form  13) Find m<1. | Bottom of Form | | 14 In the accompanying diagram of circle *O*, chords *http://www.regentsprep.org/Regents/math/geometry/PracticeTests/MCTest92.gif*and http://www.regentsprep.org/Regents/math/geometry/PracticeTests/MCTest93.gifintersect at E and http://www.regentsprep.org/Regents/math/geometry/PracticeTests/MCTest133.gif.  What is the *m<DEB*?  http://www.regentsprep.org/Regents/math/geometry/PracticeTests/MCTest134.gif |
|  |  |

HW 2-5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Circle Review 11/1/10

1) Solve for x

